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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,114	10/31/2003	Rob Ellins	P-11256.00US	8920
27581 MEDTRONIC,	7590 03/27/200 INC.	8	EXAMINER	
710 MEDTRON	NIC PARKWAY NE		TAMAI, KARL I	
MIINNEAPOLI	S, MN 55432-9924		ART UNIT	PAPER NUMBER
			2834	
			MAIL DATE	DELIVERY MODE
			03/27/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/698,114	ELLINS ET AL.				
Office Action Summary	Examiner	Art Unit				
	KARL I.E. TAMAI	2834				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
	-· action is non-final.					
<i>;</i> —	/ <del></del>					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	pa	0 0.0. 2.0.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-30</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
	•					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>01 November 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)⊠ The oath or declaration is objected to by the Ex	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
<u>_</u>	priority updor 35 LLS C & 110(a)	(d) or (f)				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:	. bassa bassa saasiisad					
	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)  Space No(s) Mail Date 1/20/2004  Space No(s) Mail Date 1/20/2004						
Paper No(s)/Mail Date <u>1/20/2004</u> . 6)  Other:						

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#### **DETAILED ACTION**

#### Oath/Declaration

1. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

It does not identify the mailing address of each inventor. A mailing address is an address at which an inventor customarily receives his or her mail and may be either a home or business address. The mailing address should include the ZIP Code designation. The mailing address may be provided in an application data sheet or a supplemental oath or declaration. See 37 CFR 1.63(c) and 37 CFR 1.76.

It does not identify the city and either state or foreign country of residence of each inventor. The residence information may be provided on either on an application data sheet or supplemental oath or declaration.

The oath and data sheet are defective because the mailing address and residence of Christian Fleury is incomplete.

## **Drawings**

2. The drawings filed 11/1/2003 are accepted.

# Specification

3. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

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### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-8 and 25-27 are rejected under 35 U.S.C. 102(b) as anticipated by Dunlop et al. (Dunlop)(WO93/26705). Dunlop teaches a motor with a rotor 11 coupled to the output shaft 30 which extends from the housing 19, and a stator having a winding 12 selectively connectable 70 to the electrical power source 62 to drive the rotor and with the stator having a magnetically conductive lamination portion 13 disposed about the rotor, where one or more of the plurality of laminations has a thickness of less than about 0.25 mm (particularly .02mm, see page 4, line 33). Dunlop teaches surgical equipment driven by the shaft.

## Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein

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were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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- 8. Claims 9-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Dunlop et al. (Dunlop)(WO93/26705) and West (US 4797602). Dunlop teaches the thickness of the stator lamination is a result effective variable for magnetic losses and efficiency (pg. 4, line 30-35). Dunlop teaches every aspect of the invention except the thickness of the lamination being about 0.2 or 0.1mm. West teaches the lamination thickness is about 0.04 to 0.12 mm. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the motor of Dunlop with the thickness of the lamination being about 0.2 or 0.1mm because West teaches a thin lamination reduces eddy currents, and because it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. (see *In re Bosch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).
- 9. Claims 13-18 and 28-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Dunlop et al. (Dunlop)(WO93/26705) and Wallner et al. (Wallner)(US 6107704). Dunlop teaches every aspect of the invention except the diameter of the housing being less than 30, 25, 20, 16, or in the range of 20-22 or 15-16 mm. Wallner

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teaches a small motor with a housing diameter of approximately 15mm to provide a micro motor with minimal dimensions. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the motor of Dunlop with the housing being less than 30, 25, 20, 16, or in the range of 20-22 or 15-16 mm because Wallner teaches micro motors should have small dimensions for micro sized transducers and because it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. (see *In re Aller*, 105 USPQ 233).

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- 10. Claims 19-22 and 30 are rejected under 35 U.S.C. 102(b) as being anticipated by Dunlop et al. (Dunlop)(WO93/26705) and Lou et al. (Lou)(US 5990584). Dunlop teaches every aspect of the invention except length of the stator being less than 100, 60, 50, or in the range of 40-50 mm. Lou teaches a small motor with a length of 45 mm. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the motor of Dunlop with the stator core length of 45 mm because Lou teaches that permanent magnet motors are designed to be small with low voltage and good torque characteristics.
- 11. Claims 23 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Dunlop et al. (Dunlop)(WO93/26705) and Lou et al. (Lou)(US 5990584) and Wallner et al. (Wallner)(US 6107704). Dunlop teaches every aspect of the invention except length of the housing outer diameter being less than 25 mm and the stator being less than 50

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mm or the housing outer diameter being less than 22 mm and the stator being less than 50 mm. Lou teaches a small motor with a length of 45 mm to optimize torque and weight. Wallner teaches a small motor with a housing diameter of approximately 15mm to provide a micro motor with minimal dimensions. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the motor of Dunlop with the stator core length of less than because Lou teaches that permanent magnet motors are designed to be small with low voltage and good torque characteristic, and with the outer diameter less than 25 or 22 mm because Wallner teaches micro motors should have small dimensions for micro-sized transducers.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl I.E. Tamai whose telephone number is (571) 272 - 2036.

The examiner can be normally contacted on Monday through Friday from 8:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Darren Schuberg, can be reached at (571) 272 - 2044. The facsimile number for the Group is (571) 273 - 8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Karl I Tamai/ PRIMARY PATENT EXAMINER March 28, 2008